

Clipcomm CP-100/100D

User Manual

CP-100/100D User Manual



CP-100/100D

- Stand-alone H.323/SIP based VoIP phone.
- Easy menu system with 16*2 character LCD and keypad.
- Applicable for private Internet line, ADSL (by PPPoE) and Cable Modem (by DHCP).
- Operable as a switching hub in a 2 IP environment.
- Automatic Answering Machine function.
- Two-way speakerphone function.
- User configurable ringer melodies.
- Phonebook editing and speed dialing.



Clipcomm, Inc.
<http://www.clipcomm.co.kr>

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1. CP-100/100D Features

1. CP-100/100D Features

- Stand-alone H.323/SIP-based VoIP phone.
- Easy menu system with 16*2 character LCD and keypad.
- Applicable for private Internet line, ADSL (by PPPoE) and Cable Modem (by DHCP).
- Operable as a switching hub in a 2 IP environment.(CP-100D only)
- Automatic Answering Machine function.
- Two-way speakerphone function.
- User configurable ringer melodies.
- Phonebook editing and speed dialing.
- Works as a wireless LAN access point or station when a wireless LAN PCMCIA card is inserted.

2. Parts Checklist

2. Parts Checklist

Please check to ensure that you have all the following components in the package:

| Item | Quantity | Usage |
|---------------|----------|-----------------------------------|
| CP-100/100D | 1 | CP-100/100D Main Body |
| User Manual | 1 | This user manual |
| Handset | 1 | CP-100/100D Handset |
| Power Adaptor | 1 | DC 12V power supply |
| LAN Cable | 1 | RJ45 LAN cable for network access |

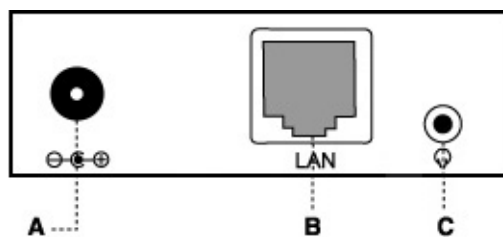


3. Installation

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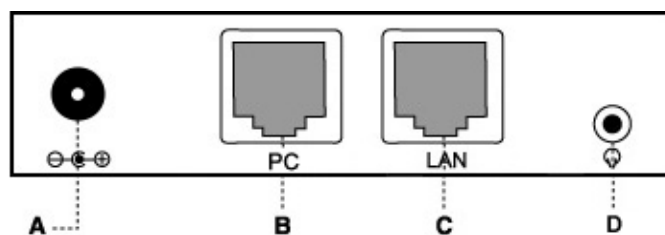
Check the location of each port and follow the below instruction to install your CP-100/100D correctly.

3.1. CP-100



- ① Connect handset to your CP-100 body.
- ② Connect UTP cable linked with ADSL/cable modem/hub to the 'LAN' port at the rear panel of your CP-100/100D. (Figure's "B")
- ③ Connect the supplied power adapter (12V DC) to the power input jack. (Figure's "A")
- ④ Connect the wired headset. (Figure's "C")

3.2. CP-100D



- ① Connect handset to your CP-100D body.
- ② Connect UTP cable linked with ADSL/cable modem/hub to the 'LAN' port at the rear panel of your

CP-100/100D. (Figure's "C")

- ③ Connect the supplied power adapter (12V DC) to the power input jack. (Figure's "A")
- ④ Connect the LAN cable from PC's LAN port to the 'PC' port to use NAT. (Figure's "B")
- ⑤ Connect the wired headset. (Figure's "D")

× Caution: Please be sure to use only the supplied AC power adapter. Otherwise, proper function of your CP-100/100D is not guaranteed.

4. Controls and Functionalities

4. Controls and Functionalities



- | | | |
|---------|-------------|--------------|
| ① START | ⑥ TRF/FLASH | ⑪ AutoAnswer |
| ② MUTE | ⑦ HOLD | ⑫ Message |
| ③ MENU | ⑧ VOL▼ | ⑬ VoIP |
| ④ CLEAR | ⑨ VOL▲ | ⑭ SPEAKER |
| ⑤ ENTER | ⑩ END | ⑮ SEND |

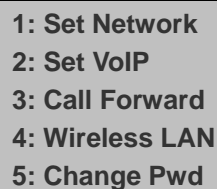
| Controls | | Functionality |
|------------------|------------|---|
| Handset | | ◆ Used for normal telephone functionality. |
| LCD display | | ◆ Displays system status and user information. |
| Button Part A | START | ◆ Restarts network access via ADSL, DHCP, Static IP mode. |
| | MUTE | ◆ Deactivates your handset microphone. |
| | MENU | ◆ Initial state: activates main menu. ◆ Character input state: changes input mode (upper case/ lower case/ numeric/ symbolic). ◆ Phonebook lookup state: displays edit menu. ◆ Message check state: plays previous message. |
| | CLEAR | ◆ Character input state : same as backspace ◆ Phonebook delete menu : deletes phonebook. ◆ Message check state : deletes current message and plays the next message. ◆ All the other states : activates previous level menu. |
| | ENTER | ◆ Activates inverted menu item. ◆ Confirms input of character string or numeric constants. ◆ Message check state: plays next message |
| | TRF/FLASH | ◆ Initiates call transfer. ◆ While you are dialing, you can re-dial using this button. |
| | HOLD | ◆ Holds current call and transmits hold signal to the held peer. |
| | VOL(▲▼) | ◆ During conversation: adjusts receiver volume. ◆ In ringer setting menu: adjusts ringer volume. ◆ During other menu manipulation: navigates among menu items. |
| | END | ◆ Returns to main menu. ◆ During conversation: finishes call session. |
| Button Part B | AutoAnswer | ◆ Toggles auto answer mode. If auto answer mode is enabled, its LED is ON. |
| | Message | ◆ Plays received voice messages. If new message(s) arrived, its LED flashes. |
| | VoIP | ◆ If VoIP call is valid, its LED is ON. If registration is failed or VoIP call is invalid, its LED flashes. |
| | SPEAKER | ◆ Activates speaker phone mode. |
| | SEND | ◆ Makes an outgoing call after phone number input. |
| Dial buttons | | ◆ Used for phone number or character input. ◆ Also used for direct selection of menu item. |

5. Phone Configuration

5. Phone Configuration

After installation, you need to configure your CP-100/100D according to your environment. You can configure your CP-100/100D by either the LCD menu or internal Web interface. From now on, LCD and keypad based configuration method is going to be explained. For Web based configuration, please refer to section 5.6 "Internal Web Interface."

To begin phone configuration using LCD and keypad, select **MENU** button → "3:Phone Mgmnt" then, phone configuration sub-menu appears as follows:



A rectangular box containing a list of five menu options for phone configuration:

- 1: Set Network
- 2: Set VoIP
- 3: Call Forward
- 4: Wireless LAN
- 5: Change Pwd

5.1. Network Configuration

To use your CP-100/100D IP Phone functionality, you need to subscribe for an Internet access line from your local ISP (Internet Service Provider). It could be leased line, ADSL or Cable modem. If your CP-100/100D is directly connected to an external ADSL modem, you need to configure your system to use ADSL. If your CP-100/100D is directly connected to a Cable modem or receives IP address configuration from a DHCP server in your local network, you need to configure your system to use DHCP. Otherwise, you need to configure your CP-100/100D with static IP address information.

To begin network configuration using LCD and keypad, select **MENU** button → "3:Phone Mgmnt" → "1:Set Network" then, network configuration sub-menu appears as follows:

1: Current Info
2: Change Config

5.1.1. Static IP Setting

- ① Select **MENU** → “3: Phone Mgmt” → “1: Set Network” → “2:Change Config”.

1: Static IP
2: DHCP
3: ADSL

- ② Select “1:Static IP”, if you want to configure your CP-100/100D in static IP environment.
- ③ Select “1:IP Address” and enter required IP address using keypad. To confirm or cancel your input, press **ENTER** or **END** button. You can enter dots (“.”) in the IP address using **#** button.

IP address
211.12.23.34_

- ④ Gateway, DNS, and Netmask addresses can be set by the same procedure.
- ⑤ *Updated static IP configuration will take effect only after restarting the system.* You can restart your system with the new configuration simply by power cycling or selecting “5:Restart Network” and press **ENTER** at static IP sub menu.

5.1.2. Dynamic IP (DHCP) Setting

- ① Select **MENU** → “3: Phone Mgmt” → “1: Set Network” → “2:Change Config”.

1: Static IP
2: DHCP
3: ADSL

- ② Select “2: DHCP ” if you want to configure your CP-100/100D in DHCP environment.

Use DHCP mode?
Yes[*] No[]

- ③ Select "Yes" and press **ENTER**. Your CP-100/100D will automatically restart in DHCP client mode after a few seconds.

5.1.3. ADSL Setting

- ① Select **MENU** → "3: Phone Mgmt" → "1: Set Network" → "2: Change Config".

1: Static IP
2: DHCP
3: ADSL

- ② Select "3: ADSL" if you want to configure your CP-100/100D in ADSL environment.

1: ADSL ID
2: ADSL Password
3: Service Provider
4: Connect ADSL

- ③ Enter your ADSL ID and password respectively using sub menu 1 and 2.

Enter ADSL ID [a]
myid_

- ④ Select a specific ADSL service provider using sub menu 3.
⑤ Select "4: Connect ADSL" and press **ENTER**. Your CP-100/100D will automatically restart in ADSL mode. In SIP version, you should restart system manually.
⑥ When ADSL connection fails, press **START** button to try again.

5.1.4. Viewing Current IP Setting

- ① Select **MENU** → "3: Phone Mgmt" → "1: Set Network".

1: Current Info
2: Change Config

- ② Select "1: Current Info". Then current network configuration status will be displayed.

1: Current Mode
 DHCP
2: IP address
 192.168.0.223

3: G/W Address
 192.168.0.1
4: DNS Address
 168.126.63.1
5: Netmask
 255.255.255.0
6: Enet Address
 000788100AE1

5.2. VoIP Configuration - H.323 version

You need to subscribe for an ITSP (Internet Telephony Service Provider) to use versatile VoIP services. You can use this VoIP configuration menu to configure your CP-100/100D according to your local ITSP's requirements.

To begin VoIP configuration using LCD and keypad, select **MENU** button → "3:Phone Mgmnt" → "2:Set VoIP," then, VoIP configuration sub-menu appears as follows:

1: Use GK
2: GK Address
3: GK Password
4: H.323 ID
5: E.164 ID
6: Voice Codec
7: NAT Traversal
8: RRQ Time

5.2.1. Gatekeeper Configuration

- ① Select "1:Use GK" and select "Yes" if you want to use a gatekeeper.

Use Gatekeeper?
 Yes [*] No []

- ② Select "2:Gatekeeper Address" and enter proper IP address of a gatekeeper. To confirm or cancel your input, press **ENTER** or **END** button.

GK Address
 211.28.99.97_

- ③ GK Password, H.323 ID, E.164 ID, Voice Codec, and RRQ Time (Registration Request Time Interval) can be set by the similar procedure. You can select voice codec among G.723.1A, G.711 μ -law, G.711 A-law, and G.729AB codec.

5.2.2. NAT traversal (External IP)


- ① If you are using private IP(under NAT) and want to use NAT traversal to make a call to outside of NAT, set "Use NAT Traversal" enable. Otherwise, make it disable.
- ② When you use NAT traversal, you need to enter the external or Internet IP address of the NAT Router in "NAT Router IP". The phone includes this IP address in the H323 messages it sends to other H323 user agents to indicate that this is the address to which H323 and RTP packets are sent.


5.2.3. Restart System after VoIP Configuration

- ① When you press **CLEAR** button to exit VoIP configuration sub menu, your CP-100/100D asks you whether to restart. By selecting "Yes," your CP-100/100D will restart with the new VoIP configuration. If you select "No," the modified configuration is stored and takes effect only after restarting.

Restart System?
 Yes [*] No []

× **Note: For more detailed VoIP configuration, you can use the internal Web interface of CP-100/100D.**



CLIPCOMM CP-100
 Stand - alone IP Phone
 

Getting Started

System Information

System Configuration

Network


VoIP

WirelessLAN

Support

System Configuration / VoIP

- Fast Start ☒ enable ☐ disable
- H.245 Tunnelling ☐ enable ☒ disable
- Use VAD ☐ enable ☒ disable
- Echo Canceller ☒ enable ☐ disable
- Debug Print Level 1
- Vocoder G.723.1A
- Use Gatekeeper (Failure) ☒ enable ☐ disable
- Gatekeeper Address 192.168.0.6
- Skip GRQ ☐ enable ☒ disable
- Gatekeeper Password
- Enable H.323 ID ☒ enable ☐ disable
- H.323 ID clip120
- Enable E.164 ID ☒ enable ☐ disable
- E.164 ID 1201
- Use Dedicated Gateway ☐ enable ☒ disable
- Dedicated Gateway N/A
- Use NAT Traversal ☒ enable ☐ disable
- NAT Router Address 192.168.0.198
- Q.931 Port Configuration ☒ Automatically
- RAS Port Configuration ☒ Automatically
- H.245 Port Configuration ☐ Automatically
- RTP Port Base Configuration ☒ Automatically
- Min Jitter Buffer Size(ms) 50
- Max Jitter Buffer Size(ms) 400
- Activate Change?



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5.3. VoIP Configuration - SIP version

You need to subscribe for an ITSP (Internet Telephony Service Provider) to use versatile VoIP services. You can use this VoIP configuration menu to configure your CP-100/100D according to your local ITSP's requirements.

To begin VoIP configuration using LCD and keypad, select **MENU** button → "3:Phone Mgmt" → "2:Set VoIP", then, VoIP configuration sub-menu appears as follows:

1: Proxy Config
2: Name Config
3: Voice Codec
4: NAT Traversal

5.3.1. Proxy Configuration

- ① Select "1:Proxy Config".

1: Registration
Success
2: Outbound Proxy
192.168.0.1
3: Registrar Server
192.168.0.1
4: SIP Server
www.clipcomm.co.kr
5: Expiry[sec]
3600

- ② "1:Registration" shows the state of the registration.
③ Select "2:Outbound Proxy" and enter the address of outbound proxy.

Outbound Proxy [1]

- ④ Registrar Server, SIP Server, and Expiry can be set by the similar procedure. Usually, registrar server is same as outbound proxy. SIP server is likely as domain name. Expiry is registration interval to keep connecting to server.

5.3.2. Name Configuration

- ① Select "2:Name Config".

1: User ID
20002
2: Display Name
clip
3: Password
0000

- ② Select "1:User ID" and enter proper number for SIP. To confirm or cancel your input, press **ENTER** or **END** button. User ID is used for phone number after registration.

[1] User ID
20002

- ③ Display name and password can be set by similar procedure. Display name is user name, and password is PIN code for registration to registrar.

5.3.3. Codec Selection

Select "3:Voice Codec", then current codec is shown for a sec, and the menu is displayed.

1:G.723.1
2:G.711 Mu Law
3:G.711 A Law
4:G.729 Annex A

Select the codec you want to use.

5.3.4. NAT Traversal

- ① Select "4:NAT Traversal".

1:NAT Function
No Use
2: STUN Server

3: NAT Router IP

4: NAT Timer

5.3.4.1. NAT Traversal using STUN server

- ① If you use NAT traversal using STUN server, select "1:NAT Function" and select "2:STUN".

1. No Use
2. STUN
3. Manual

- ② After selecting "1:NAT Function", select "2:STUN Address". Enter the address of STUN server. This address can be FQDN.

[a] STUN Address
clipcomm.co.kr:5088

5.3.4.2. NAT Traversal without STUN server

- ① If you use NAT traversal without STUN server, you should know the external IP address of NAT router. Select, "1:NAT Function" and then select "3:Manual".
- ② After selecting "1:NAT Function", select "3:NAT Router IP". Enter the external address of NAT router.


[a] NAT Router IP

5.3.4.3. NAT session keep time


Select "4:NAT Timer". Enter the time to send packet for keeping NAT session.

NAT Timer
30

× Note: For more detailed VoIP configuration, you can use the internal Web interface of CP-100/100D.



CLIPCOMM CP - 101
 Stand - alone IP Phone with PSTN Backup



Getting Started


System Information

- **System Configuration**
 - Network
 - SIP
 - Current Configuraion

Support

System Configuration / SIP

| | |
|---------------------|---|
| • Registrar Server | <input type="text" value="192.168.0.6"/> |
| • Outbound Proxy | <input type="text" value="192.168.0.6"/> |
| • SIP Server | <input type="text" value="www.clipcomm.co.kr"/> |
| • Password | <input type="password" value="*****"/> |
| • Expiry Timer | <input type="text" value="3600"/> |
| • Proxy Port | <input type="text" value="5060"/> |
| • RTP Port | <input type="text" value="7078"/> |
| • Local Port | <input type="text" value="5060"/> |
| • User ID | <input type="text" value="40002"/> |
| • Display Name | <input type="text" value="clipcomm"/> |
| • Authentication ID | <input type="text" value="40002"/> |
| • Voice Codec | <input type="text" value="G.723.1"/> |
| • Max-Forwards | <input type="text" value="70"/> |
| • Sending DTMF | <input checked="" type="radio"/> RTP(RFC2833) <input type="radio"/> INFO |
| • NAT Traverse | <input type="text" value="STUN"/> |
| • STUN Server(FQDN) | <input type="text" value="stun.clipcomm.co.kr"/> |
| • NAT IP | <input type="text"/> |
| • NAT Timer | <input type="text" value="30"/> |
| • Activate Change? | <input type="button" value="save"/> <input type="button" value="save and restart"/> |



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5.4. Call Forwarding

You can configure that CP-100/100D can forward incoming call to selected number.

- ① Select **Menu** → "3:Phone Mgmt" → "3:Call Forward"

1: Setting
Disable
2: Forwarding No.

- ② Select "1:Setting", and choose condition when you want to enable call forwarding function.

- 1: Disable
 - 2: Unconditional
 - 3: on Busy
 - 4: on No Answer

In H.323 version, "3:on Busy" and "4:on No Answer" is not available.

- ③ Select "2:Forwarding No". Enter the number where you want to forward incoming call.

× Note: The settings are prioritized; 1) auto answering 2) call forwarding. That is, if you set on auto answering, then you can't use call forwarding.

5.5. Changing Password

- ① A default password of CP-100/100D is set as "0000." We recommend that you change this default password to prevent any unwanted access to your phone. To change the 4-digit password, select **MENU** → "3:Phone Mgmt" → "5:Change pwd."
- ② Enter a new 4-digit password (numerical only).
- ③ Enter the new password again to confirm.

5.6. Internal Web Interface

You can configure and monitor your CP-100/100D using the internal Web interface. When the network configuration of your CP-100/100D is completed and the CP-100/100D properly connects to your network, you can access the internal Web interface of your CP-100/100D via following HTTP address and port number:

http://IP address of your CP-100/100D:1001

Enter "admin" as the User ID and "0000" as the password once the pop-up window appears.

5.6.1. System Information

- **System Status:** Displays current system status information regarding network and H.323/SIP.
- **Technical Specification:** Lists software version, serial number, MAC address, and other detailed specifications of CP-100/100D.

5.6.2. System Configuration

- **Network Setting:** You can configure IP address and time server.
- **H.323(or SIP) Setting:** You can configure various H.323(or SIP) related parameters such as IP address of H.323 gatekeeper, H.323 ID, E.164 ID, etc.
- **Current Setting:** Shows all the current system settings of your CP-100/100D.

5.6.2.1. Network Setting

- ① Click "Network Setting" and fill in each of items.
- ② After completing filling up values, click "Save and Restart" button and CP-100/100D will restart automatically with the updated setting. If you click "Save" button, the updated network setting is stored in your CP-100/100D but will not take effect until restarts.

✕ **Note:** Please refer to the following terminology for your network setting.

- **Static IP:** If you want to assign static IP address to your CP-100/100D, choose "**Static IP**" radio button and fill the following items.
IP: IP address of your CP-100/100D.
Gateway: : IP address of the gateway in your local network.
Subnet Mask: Network mask of your local network.
- **DHCP:** Choose "DHCP" radio button if your CP-100/100D directly connects to a Cable modem or receives IP address configuration from a DHCP server in your local network.
- **ADSL (PPPoE):** If you want to directly connect your CP-100/100D to the external ADSL modem supporting PPPoE interface, choose "ADSL (PPPoE)" radio button and fill the following items :
ID: User ID for the ADSL network.
Password: Password for the ADSL network.
- **DNS Server:** IP address of a domain name server in your network.

5.6.2.2. H.323 Setting

- ① Click "H.323" and fill in each of items.
- ② After completing filling up values, click "Save and Restart" button and CP-100/100D will restart automatically with the updated setting. If you click "Save" button, the updated setting is stored in your CP-100/100D but will not take effect until restart.

✕ **Note:** Please refer to the following terminology for your H.323 setting.

- **Use gatekeeper:** If enabled, CP-100/100D tries to communicate with the gatekeeper whose address is specified in "Gatekeeper address" tab.
- **Fast start:** If enabled, CP-100/100D tries to make outgoing call by *fast start* procedure.

- **H245 Tunneling:** If enabled, CP-100/100D uses *H.245 tunneling* in making an outgoing call.
- **Gatekeeper address:** If "Use gatekeeper" is enabled, the IP address of gatekeeper is set by this tab.
- **Skip GRQ:** If "Skip GRQ" is enabled, CP-100/100D does not send GRQ to register.
- **Gatekeeper Password:** Password to register to gatekeeper
- **Use H.323 ID:** If enabled, CP-100/100D sets an H.323 ID in making an outgoing call.
- **H.323 ID:** An H.323 ID that can be used in gatekeeper registration.
- **Use E.164 ID:** If enabled, CP-100/100D sets an E.164 ID in making an outgoing call.
- **E.164 ID:** An E.323 ID that can be used in gatekeeper registration.
- **Use dedicated gateway:** if enabled, CP-100/100D always makes outgoing call via a dedicated gateway. If the 'Use gatekeeper' field is enabled, this field is ignored.
- **Dedicated gateway:** IP address of the dedicated gateway.
- **Use VAD:** If enabled, CP-100/100D continuously monitors voice activity and does not send voice data when it detects silence.
- **Min Jitter Buffer Size:** Minimum jitter buffer size for voice conversation.
- **Max Jitter Buffer Size:** Maximum jitter buffer size for voice conversation.
- **Q.931 Port Configuration:** You can set Q.931 port number manually if you want.
- **RAS Configuration:** You can set RAS port number manually if you want.
- **H.245 Port Configuration:** You can set H.245 port number manually if you want.
- **RTP Port Base Configuration:** You can set base port number for RTP base using this tab. RTP port is increased per calls, and circulates between [RTP port base] and [RTP port base+3].
- **Use NAT Traversal:** If enabled, you can make and receive calls behind NAT.
- **NAT Router IP :** If you are using NAT traversal, you can set external IP address of NAT router.

5.6.2.3. SIP setting

If your CP-100/100Dis equipped with SIP firmware, you have to change the configuration related to the URI and proxy server. Please inquire of the administrator about the specific parameters.

- **Registrar Server:** The address of registrar server. Usually, this address may be identical to outbound proxy.
- **Outbound Proxy:** The address of where SIP packet is sent.
- **Password:** The password required for registration.
- **Expiry Timer:** The time to determine registration failure
- **Proxy Port:** Base port where outbound proxy receives CP-100/100D's SIP packet.
- **RTP Port:** Base RTP port for voice packet streaming
- **Local Port:** Base SIP port where CP-100/100D sends and receives SIP packet.
- **User ID:** The user name or phone number which is used for SIP communication
- **Display Name:** The display name which is used for SIP communication
- **Authentication ID:** ID for registration.

- **Voice codec:** The type of codec for voice compression and packetization.
- **Sending DTMF:** CP-100/100D can send DTMF with RTP packet(RFC2833) or INFO message.
- **Max-Forwards:** Valid number hops for SIP packets
- **NAT Traversal:** You can select "STUN" if you use NAT traversal function with STUN server. Otherwise you can select "Manual" if you use NAT traversal function without STUN server.
- **STUN Server(FQDN):** If you use NAT traversal with STUN server, input the address of STUN server. This address can be FQDN.
- **NAT Router IP:** If you use NAT traversal without STUN server, input the address of your NAT router.
- **NAT Timer:** you can set time to send packets for keeping NAT session

5.7. Wireless LAN Configuration

Before using the wireless LAN functions of your CP-100/100D, make sure that an interoperable wireless LAN PC card is used. An interoperable 802.11b PC card is based on Intersil's Prism chipset and original Intersil firmware. Examples of interoperable wireless LAN cards include Linksys's WPC11, SMC's 2632W, and Gemtek's WL-211.

| Item | Meaning | Default Value |
|------------------|--|---------------|
| Mode | Disable : Don't use wireless LAN. AP : Wireless LAN interface operates as a wireless LAN access point. Station : Wireless LAN interface operates as a wireless LAN station | Disable |
| ESSID | Set ESSID. If the 'Mode' above is 'AP', this should be a unique ESSID of the wireless service area, and if the 'Mode' is 'Station', this should be the same as the ESSID of the Wireless LAN AP to which CP-100D will connect. | clip |
| Channel | Frequency band to use for communication with AP | 1 |
| Rates | Data-rate to use for communication with AP | All rates |
| WEP | Mode : Encryption mode for secure 802.11b communication. (Disabled / 64 bit / 128 bit) Key # : seed string used for encryption Default Key : key index to be used for encryption | Disabled |
| WLAN DHCP server | In the 'AP' mode, Disable : Turn off the CP-100D's DHCP server Enable : Turn on the CP-100D's DHCP server for wireless LAN clients. | Enable |

6. Making / Receiving Phone Calls

6. Making / Receiving Phone Calls

6.1. Making VoIP Phone Calls

6.1.1. Calling by IP Address in VoIP Service Mode

- ① Pick up the handset (or press **SPEAKER** button).
- ② Enter callee's IP address. Use “#” button for dot (“.”) between IP numerals. Use **CLEAR** button to correct telephone number.
- ③ Press **SEND** button.

6.1.2. Calling by General Telephone Number in VoIP Service Mode

- ① Pick up the handset (or press **SPEAKER** button).
- ② Enter callee's telephone number. Use **CLEAR** button to correct telephone number.
- ③ Press **SEND** button.

- ※ You can adjust receiver volume during conversation using **VOL** (▲, ▼) buttons.
- ※ By pressing **MENU** button instead of **SEND** button after phone number input, you can save the phone number in the phonebook.
- ※ After picking up the handset, recently placed call history is listed on the LCD screen when you press **SEND** button first. You can make a call from a phone number in the call history by select the number using **VOL** (▲, ▼) buttons and then pressing **SEND** button again.

6.2. Receiving VoIP Calls

- ① Pick up the handset when the phone bell rings (or press **SPEAKER** button).
- ② Talk over the phone.
- ③ Hang up the handset when your call is finished (or press **END** button).

7. Additional Functions

7. Additional Functions

There are many additional functions besides just making or receiving calls in your CP-100/100D. This chapter explains how to invoke and use the additional functions.

7.1. Automatic Answering

Press **MENU** → select “1:Auto answer” menu to configure and manage automatic answering functionality of your CP-100/100D.

1: Outgoing Msg
2: Check Msg
3: Erase All Msg
4: Waiting Time

7.1.1. Managing Your Own Outgoing Message

- ① Select “1:OGM.”

1: Record OGM
2: Play Back OGM
3: Delete OGM

- ② Select “1:Record OGM” and follow the instructions displayed on LCD to record your own outgoing message.
- ③ You can hear the recorded outgoing message by selecting “2: Play Back OGM,” or delete by selecting “3: Delete OGM.”

7.1.2. Checking Voice Messages

- ① Select “2:Check Msg” to play voice messages in message box. You can more easily check new voice messages by pressing **Message** button when its LED flashes.
- ② Voice messages are played and displayed in time order.

New msg : 0
Total msg : 1

9/25 05:26 PM
192.168.0.186

- ③ To adjust volume during message playing, use **VOL** (▲,▼) buttons.
- ④ Press **ENTER** button for next message and **MENU** for previous message.
- ⑤ To delete current message, press **CLEAR** button.

7.1.3. Erase All Voice Messages

You can erase all voice messages in message box by selecting "3: Erase All Msg" menu and select "Yes."

7.1.4. Waiting time

You can select the waiting time before auto answering by selecting "4: Waiting Time"

7.2. Phonebook

You can check call history and manage your own phone number lists with Phonebook function. Press **MENU** → select "2: Phonebook" to activate the Phonebook menus.

7.2.1. Checking Call History

- ① Select "1:Placed" or "2:Received" or "3:Missed" menu to check call history.
- ② You can check specific information on a placed or received or missed call using **VOL** (▲,▼) button + **ENTER** button or numeric buttons directly.

※ **Note: During checking information on a phone number...**

- You can add the phone number to the phonebook by pressing **MENU** button.
- You can make a call to the phone number by picking up your handset and then pressing **SEND** button.

7.2.2. Searching for a Phonebook Entry

You can find a phonebook entry either by name, phone number or phonebook entry number.

- ① Select "4:Search".
- ② Select a sub-menu among "All Entries", "By Name", "By Phone No." or "By Entry No."
- ③ Enter a name, phone number or entry number you are searching for and press **ENTER** button.
- ④ Found phonebook entries are listed.
- ⑤ Press **ENTER** and it shows detailed information of the phonebook entry.

7.2.3. Adding an Entry to Phonebook

- ① Select "5:Register."
- ② Enter name & phone number.
- ③ Press **ENTER** button to add to phonebook.

7.2.4. Deleting Call History

- ① Select "6:Delete Calls"
- ② Select "1:Placed Call" or "2:Received Call" or "3:Missed Call".
- ③ Select "Yes" to delete the call history permanently

7.2.5. Empty Phonebook

- ① Select "7:Empty Phonebook."
- ② Select "Yes" to empty all the phone book entries.

7.3. Extra Configuration

Press **MENU** → select "4: Extra Config". Then, extra configuration sub-menu appears as follows:

1: Set Ringer
 2: Screen Msg
 3: Time Server
 4: Time Zone
 5: Set Alarm
 6: Lock Phone

7.3.1. Set Ringer

- ① Select "1: Set Ringer", then, ringer configuration sub-menu appears as follows:

1: Ringer Melody
2: Ringer Volume

- ② Select "1:Ringer Melody" : use **VOL** (▲,▼) buttons to locate an appropriate ringer melody and press **ENTER** button to change current ringer melody setting.
- ③ Select "2:Ringer Volume" : adjust volume using **VOL** (▲,▼) buttons and press **ENTER** button to change current ringer volume setting.

7.3.2. Screen Msg

- ① To change screen message, select "2:Screen Msg" and then, a sub-menu appears as follows:

1: User Defined
2: Use ID

- ② Default screen message of CP-100/100D is "CLIPCOMM CP-100/100D," which can be changed. To change screen message of your CP-100/100D, select "1:User Defined" (your own message) or "2: Use ID." (in H.323 version, H.323 ID or E.164 ID)
- ③ Press **ENTER** button and then the initial screen message will be changed.

7.3.3. Time Server

- ① Your CP-100/100D communicates with a time-server to get information on current time. To change the time-server, select "3:Time Server."

Enter IP Address
211.234.222.98_

- ② Enter the IP address of new time-server using keypad. To confirm or cancel your input, press **ENTER** or **END** button.

7.3.4. Time Zone

- ① Using this menu, you can set proper time zone of your location. The CP-100/100D displays current wall-clock time according to the time information from a time-server interpreted by this time zone. To set current time-zone of your CP-100/100D, select "4:Time Zone."

7.3.5. Set Alarm

- ① Press **MENU** → "4:Extra Config" → "5: Set Alarm" to activate alarm setting sub-menu.

1: Cancel Alarm
2: Alarm Time
3: Alarm Melody

- ② Select "1:Cancel Alarm", and then, select "Yes" to cancel alarm.
- ③ In H.323 version, select "2:Alarm Time" and enter appropriate time you want to set, select AM/PM using **VOL** (▲, ▼) buttons, and then press **ENTER** button. Then, choose the number of alarming (Once or Daily) and save current setting by pressing **ENTER** button.

(h)(m)
AM(*)PM() Once

- ④ In SIP version, select "2:Alarm Time" and choose the number of alarming (Once or Daily). Then, enter appropriate time you want to set.

04/20 13h:28m
_h:_m

- ⑤ Select "3:Alarm Melody", then, you can change alarm melody and volume.

7.3.6. Locking your CP-100/100D

- ① To prevent others from using your CP-100/100D, you can lock your phone. To enable phone locking, select "6:Lock Phone."

Input Passwd [1]

- ② After entering password, select option to restrict use of phone
- ③ When phone locking is enabled, you will be asked to enter a password whenever you pick up the handset or press **SPEAKER** button to make a phone call.

7.4. Firmware Management

Your CP-100/100D automatically checks the updated version.

- ① Press **MENU** and select "5:Firmware" to enter the firmware update menu of CP-100/100D.

1:Firmware Ver.
2:Update
3:Update Server

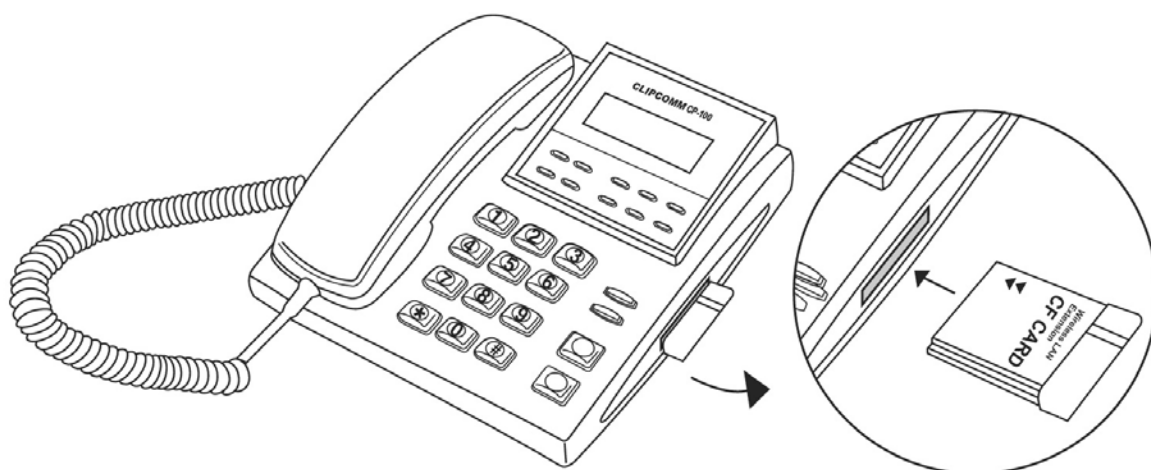
- ② Select "1:Firmware Ver." to check the current firmware version.
③ Select "3:Update Server" to check the IP address of update server.
④ Select "2:Update" to update your CP-100/100D with latest firmware.

× CAUTION! Do not disturb CP-100/100D until firmware upgrade is finished!! Normally, firmware upgrade takes about 1 minute. When upgrade is completed, CP-100/100D automatically restarts.

8. Wireless-LAN

8. Wireless-LAN Extension

Insert Clipcomm's wireless LAN extension card into the CP-100/100D PCMCIA extension slot as shown in the figure below. After inserting the IEEE 802.11b wireless LAN extension card, the CP-100/100D can be used as a wireless LAN access-point or wireless LAN station. For its configuration, refer to the section "5.7 Wireless LAN Configuration" of this manual.



9. Firmware Upgrade

9. Firmware Upgrade

9.1. Firmware Upgrade by FTP

When your CP-100/100D is accessible by its IP address, you can upgrade its firmware by FTP, which is the fastest firmware upgrading method. FTP cannot be used when your CP-100/100D is in abnormal state or not connected to the network.

× *To get the latest version of firmware, please contact tech support at CLIPCOMM's website or send an e-mail to techsupport@clipcomm.co.kr.*

The following example shows how a command line FTP client is used to upload a new firmware ("CP-100/100D.flis") to the CP-100/100D. Its IP address is 192.168.0.36. Enter "admin" as the user name and type in the password that is set in the VoIP configuration web page of the CP-100/100D. The default password is "0000."The system will reboot automatically when upgrading the firmware by FTP is completed.

```
C:\> ftp 192.168.0.36
Connected to 192.168.0.36.
220 FTP Server Ready
User (192.168.0.36:(none)): admin <Enter>
230 Logged in
ftp> bin
200 Type OK
ftp> put CP-100/100D.flis flash
200 Port command okay
150 Opening data connection for STOR (192.168.0.14,1161)
226 File received OK – 1053136 bytes in 10.640 sec
ftp: 1053136 bytes sent in 10.55Seconds 99.82Kbytes/sec.
```

× CAUTION! Do not disturb CP-100/100D until firmware upgrade is finished!! Normally, firmware upgrade takes about 1 minute. When upgrade is completed, CP-100/100D automatically restarts.

9.2. Firmware Upgrade by UTP Cable

In case your CP-100/100D is not accessible via its IP address, you can perform firmware upgrade by connecting the CP-100/100D and a PC using UTP cable. The PC should have an Ethernet interface. This method requires a firmware-uploading program installed on PC, which can be downloadable at CLIPCOMM's technical support page.

Firmware upgrade by UTP cable is performed by the following procedure:

- ① Turn-off your CP-100/100D.
- ② Connect your CP-100/100D and PC with UTP cable. You can connect PC and "LAN" port of CP-100/100D directly with UTP cable. Or you can configure that PC and CP-100/100D are connected to same HUB.
- ③ Execute firmware upload program on PC. Contact techsupport website of CLIPCOMM.
- ④ Assign new firmware file and turn on your CP-100/100D with both **AutoAnswer** and **VoIP** button pressed. Release buttons after a few seconds.
- ⑤ Firmware uploading begins when you press "OK" button of the firmware upload program.

10. Character Input Using Keypad

10. Character Input Using Keypad

In character input mode during menu manipulation, you can change current character set by pressing **MENU** button repetitively. The character set circulates as follows:

English upper case ([A]) / English lower case ([a]) / Numeric ([1]) / Symbolic([@])

10.1. English Characters

- Press **MENU** button a few times until one of upper case ([A]) and lower case ([a]) set is selected.
- Two or three alphabets are mapped to all nine numeric buttons from 1 to 9. You can input a specific alphabet by pressing the button to which the alphabet is mapped. If printed alphabet is not the one you want, you can switch among three alphabets using ***** and **#** buttons.
- Example: "A" "B" and "C" are mapped to **2** button, thus,
 A : **2**
 B : **2** + *****
 C : **2** + **#**
- To input a space, press **0** button.

10.2. Symbolic Characters

- ① In character input mode, press **MENU** button a few times until symbolic ([@]) set is selected.
- ② When symbolic set is selected, each numeric key represents a specific symbol as following table:

| Key | Symbol | Key | Symbol | Key | Symbol |
|-----|--------|-----|--------|-----|--------|
| 1 | ! | 2 | @ | 3 | \$ |
| 4 | ? | 5 | : | 6 | , |
| 7 | (| 8 |) | 9 | - |
| * | * | 0 | ~ | # | # |